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Substitute for form 146B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known	
Application Number	10/531,078
Filing Date	2003-10-15
First Named Inventor	GAINEY; Kenneth M.,
Art Unit	2618
Examiner Name	Sanh D. Phu

Sheet

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of

9

Attorney Docket No: 080590

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US4777653	10-11-1988	BONNEROT; Georges, et al.	
	002	US5095528	03-10-1992	LESLIE; Samuel A., et al.	
	003	US5280480	01-18-1994	PITT; Daniel A., et al.	
	004	US5333175	07-26-1994	ARIYAVISITAKUL; Sirikiat, et al.	
	005	US5383144	01-17-1995	KATO, Shiro	
	006	US5732334	03-24-1998	MIYAKE; Atsushi	
	007	US5767788	06-16-1998	NESS; James C.	
	008	US5815795	09-29-1998	IWA; Tohru	
	009	US5825809	10-20-1998	SIM; Bok-Tae	
	010	US6215982	04-10-2001	TROMPOWER; Michael L.	
	011	US6377612	04-23-2002	BAKER, Kenneth R.	
	012	US6404775	06-11-2002	LESLIE; Samuel A., et al.	
	013	US6480481	11-12-2002	PARK; Su-Won, et al.	
	014	US6535732	03-18-2003	MCINTOSH; Chris P., et al.	
	015	US6539028	03-25-2003	SOH; Kok Hong, et al.	
	016	US6549542	04-15-2003	DONG; Sung-Soo, et al.	
	017	US6694125	02-17-2004	WHITE; Stanley A., et al.	
	018	US6766113	07-20-2004	AL-SALAMEH; Daniel Y., et al.	
	019	US7043203	05-09-2006	MIQUEL; Xavier Barba, et al.	

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Substitute for form 1449/USPTO			Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			<b>Application Number</b>	10/531,078
{Use as many sheets as necessary}			<b>Filing Date</b>	2003-10-15
			<b>First Named Inventor</b>	GAINAY; Kenneth M.
			<b>Art Unit</b>	2618
			<b>Examiner Name</b>	Sanh D. Phu
Sheet	2	of	9	Attorney Docket No: 080590

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	020	US7123670	10-17-2006	GILBERT; Jeffrey M., et al.	
	021	US7132988	11-07-2006	YEGIN; Korkut, et al.	
	022	US7133460	11-07-2006	BAE; Sang-Min, et al.	
	023	US7409186	08-05-2008	VAN BUREN; V. Alan, et al.	
	024	US7430397	09-30-2008	SUDA; Hirohito, et al.	
	025	US7486929	02-03-2009	VAN BUREN; V. Alan, et al.	
	026	US7623826	11-24-2009	PERGAL; Frank	
	027	US20010018328	08-30-2001	OHKURA; Yoshinori, et al.	
	028	US20010040699	11-15-2001	OSAWA; Hidefumi, et al.	
	029	US20010050580	12-13-2001	O'toole; James E., et al.	
	030	US20010050906	12-13-2001	ODENWALDER; Joseph P., et al.	
	031	US20020004924	01-10-2002	KIM; Min-Koo, et al.	
	032	US20020034958	03-21-2002	OBERSCHMIDT; Gerald, et al.	
	033	US20020109585	08-15-2002	SANDERSON, Lelon Wayne	
	034	US20020119783	08-29-2002	BOURLAS; Yair, et al.	
	035	US20020141435	10-03-2002	NEWBERG; Donald G., et al.	
	036	US20020159506	10-31-2002	ALAMOUTI; Siavash, et al.	
	037	US20030026363	02-06-2003	STOTER; Jan, et al.	
	038	US20030185163	10-02-2003	BERTONIS; James G., et al.	

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 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. >Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). >  
 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document, &Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. >Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to be given (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete the form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for Form 14-48-PTC		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Application Number</b>	10/531,078
		<b>Filing Date</b>	2003-10-15
		<b>First Named Inventor</b>	GAINEY, Kenneth M.,
		<b>Art Unit</b>	2618
		<b>Examiner Name</b>	Sanh D. Phu
Sheet	3	of	9
Attorney Docket No: 080590			

**FOREIGN PATENT DOCUMENTS**

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'EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. - Applicant's unique citation designation number (optional) 2  
See Kind Codes [USPTO Patent Documents at www.uspto.gov or MPEP 901.04.](http://USPTO.gov) Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3) 4  
For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [Kind Code](http://WIPO Standard ST 3) by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. [5](http://Applicant is to place a check mark here if English language)  
and (b) by the IUPAC name of the compound. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file, induce, gathering, preparing, and submitting the corrected application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or comments for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known	
Application Number	10/531,078
Filing Date	2003-10-15
First Named Inventor	GAINEY, Kenneth M.
Art Unit	2618
Examiner Name	Sanh D. Phu

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of

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Attorney Docket No: 080590

	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Relevant Passages or Relevant Figures Appear	T 6
	053 EP0709973A1	05-01-1996	NTT MOBILE COMMUNICATIONS NETWORK INC.		<input type="checkbox"/>
	054 EP0715423	06-05-1996	AT & T CORP [US]		<input type="checkbox"/>
	055 EP0847146A2	06-10-1998	NEC CORP [JP]		<input type="checkbox"/>
	056 EP0853393A1	07-15-1998	NTT MOBILE COMMUNICATIONS NETWORK INC.		<input type="checkbox"/>
	057 GB2351420A	12-27-2000	MOTOROLA LTD.		<input type="checkbox"/>
	058 JP05063623	03-12-1993	NEC CORP.		<input checked="" type="checkbox"/>
	059 JP05102907	04-23-1993	FUJITSU LTD.		<input checked="" type="checkbox"/>
	060 JP06334577	12-02-1994	NIPPON TELEGRAPH & TELEPHONE.		<input checked="" type="checkbox"/>
	061 JP07030473	01-31-1995	NIPPON TELEGRAPH & TELEPHONE.		<input checked="" type="checkbox"/>
	062 JP07079205	03-20-1995	NIPPON TELEGRAPH & TELEPHONE.		<input checked="" type="checkbox"/>
	063 JP09018484A	01-17-1997	TEC CORP.		<input checked="" type="checkbox"/>
	064 JP09182155	07-11-1997	HITACHI LTD.		<input checked="" type="checkbox"/>
	065 JP10032557A	02-03-1998	NEC CORP.		<input checked="" type="checkbox"/>
	066 JP10135892	05-22-1998	MITSUBISHI ELECTRIC CORP.		<input checked="" type="checkbox"/>
	067 JP11055713	02-26-1999	MATSUSHITA ELECTRIC IND CO LTD.		<input checked="" type="checkbox"/>
	068 JP11127104	05-11-1999	MATSUSHITA ELECTRIC IND CO LTD.		<input checked="" type="checkbox"/>
	069 JP2000031877	01-28-2000	SHARP CORP.		<input checked="" type="checkbox"/>
	070 JP2000082983A	03-21-2000	KOKUSAI ELECTRIC CO LTD.		<input checked="" type="checkbox"/>

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 See Kind Codes in USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \*Enter Office that issued the document, the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449aPTO				Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		<b>Application Number</b>		10/531,078	
		<b>Filing Date</b>		2003-10-15	
		<b>First Named Inventor</b>		GAINEY, Kenneth M.,	
		<b>Art Unit</b>		2618	
<b>Examiner Name</b>		Sanh D. Phu			
Sheet	5	of	9	Attorney Docket No: 080590	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
071	JP2000269873		09-29-2000	KOKUSAI ELECTRIC CO LTD.	<input checked="" type="checkbox"/>
072	JP2000502218T		02-22-2000	QUALCOMM INC.	<input checked="" type="checkbox"/>
073	JP2001111575A		04-20-2001	MATSUSHITA ELECTRIC IND CO LTD.	<input checked="" type="checkbox"/>
074	JP2001244864A		09-07-2001	HITACHI LTD.	<input checked="" type="checkbox"/>
075	JP2002033691		01-31-2002	SONY INT EUROP GMBH.	<input checked="" type="checkbox"/>
076	JP2002111571A		04-12-2002	NIPPON TELEGR & TELEPH CORP.	<input checked="" type="checkbox"/>
077	JP2005531202		10-13-2005	WIDEFI, INC.	<input checked="" type="checkbox"/>
078	JP2005531265		10-13-2005	QUALCOMM INC.	<input checked="" type="checkbox"/>
079	JP2006503481		01-26-2006	QUALCOMM INCORPORATED	<input checked="" type="checkbox"/>
080	JP2006505146		02-09-2006	QUALCOMM INC [US]	<input checked="" type="checkbox"/>
081	JP62040895		02-21-1987	TOSHIBA CORP.	<input checked="" type="checkbox"/>
082	JP63160442		07-04-1988	HITACHI DENSHI LTD.	<input checked="" type="checkbox"/>
083	JP64011428		01-17-1989	TOYO COMMUN EQUIP CO LTD.	<input checked="" type="checkbox"/>
084	KR100610929		08-10-2006	SAMSUNG THALES CO LTD [KR]	<input checked="" type="checkbox"/>
	085	RU2120702C1	10-20-1998	BRITISH TELEKOMM'JUNIKEJSHNZ PABLIK LIMITED KOMPAN.	<input type="checkbox"/>
	086	WO0050971A2	08-31-2000	BERKELEY CONCEPT RESEARCH CORP [US]	<input type="checkbox"/>

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Substitute for Form 1449(PTO)		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Application Number</b>	10/531,078
		<b>Filing Date</b>	2003-10-15
		<b>First Named Inventor</b>	GAINEY, Kenneth M.
		<b>Art Unit</b>	2618
		<b>Examiner Name</b>	Sanh D. Phu
(Use as many sheets as necessary)			
Sheet	6	of	9
Attorney Docket No: 080590			

## FOREIGN PATENT DOCUMENTS

## NON PATENT LITERATURE DOCUMENTS

Examiner initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
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### /Sanh Phu/

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See *Kind Codes* [uspto.gov](http://uspto.gov) MPEP 901.04, **e**Enter Office that issued the document, by the two-letter code (WPO - Standard ST 3). **4** For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. **5**End of document by the appropriate symbols as indicated on the document under WPO Standard ST 16 if possible. **Applicant to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file an application (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. This will vary depending upon the individual case. Any comments or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND IQ: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Art Unit	2618
Examiner Name	Sanh D. Phu

Sheet

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of

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Attorney Docket No: 080590

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	098	KANNANGARA, et al., "Analysis of an Adaptive Wideband Duplexer with Double-Loop Cancellation," IEEE Transactions on Vehicular Technology, vol. 56, no. 4, July 2007, pp. 1971-1982.	<input type="checkbox"/>
	099	KUTLU, et al., "Performance Analysis of MAC Protocols for Wireless Control Area Network," 1996 IEEE, pp. 494-499.	<input type="checkbox"/>
	100	Office Action English translation dated July 4, 2008 issued from Chinese Patent Office for Application No. 03814391.7.	<input type="checkbox"/>
	101	Office Action English translation dated June 29, 2009 issued from Japanese Patent Office for Application No. 2004-541532 (080585JP).	<input type="checkbox"/>
	102	Official communication issued from the European Patent Office dated August 7, 2007 for the corresponding European patent application No. 03759271.4-2412.	<input type="checkbox"/>
	103	Official communication issued from the European Patent Office dated December 19, 2006 for the corresponding European patent application No. 03759271.4-2412.	<input type="checkbox"/>
	104	Supplementary European Search Report - EP03759271, Search Authority - Munich Patent Office, 09-14-06 (080590EP).	<input type="checkbox"/>
	105	Translation of Office Action in Japanese application 2004-515701, corresponding to US application 10/516,327, citing WO00050971, JP2000-031877, JP2002-033691, JP2002-111571 and JP11-127104. Dated 2010-05-25 (080583JP).	<input type="checkbox"/>
	106	Translation of Office Action in Japanese application 2004-544751, corresponding to US application 10/531,078, citing WO00050971, JP2002-111571, JP05-102907, JP63-160442, JP2000-502218, JP10-032557 and JP2000-082983. Dated 2009-08-25 (080590JP).	<input type="checkbox"/>
	107	Translation of Office Action in Japanese application 2004-553510, corresponding to US application 10/533,589, citing WO00050971, JP09-182155, JP64-011428 and JP62-040895. Dated 2009-09-29 (080588JP).	<input type="checkbox"/>
	108	Translation of Office Action in Japanese application 2004-565505, corresponding to US application 10/563,471, citing JP08-097762 and JP2001-111575. Dated 2009-08-11 (080589JP).	<input type="checkbox"/>
	109	Translation of Office Action in Japanese application 2004-565505, corresponding to US application 10/563,471, citing JP08-097762, JP2001-111575, JP09-018484 and JP11-055713. Dated 2010-09-14 (080589JP).	<input type="checkbox"/>
	110	Translation of Office Action in Japanese application 2004-565505, corresponding to US	<input type="checkbox"/>

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/Sanh Phu/

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Application Number	10/531,078
Filing Date	2003-10-15
First Named Inventor	GAINEY, Kenneth M.
Art Unit	2618
Examiner Name	Sanh D. Phu

Attorney Docket No: 080590

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
		application 10/563,471, citing JP09-018484. Dated 2010-02-23 (080589JP).	
	111	Translation of Office Action in Korean application 2008-7026775, corresponding to US application 11/730,361, citing KR100610929 Dated 2010-08-30 (080600KR).	<input type="checkbox"/>
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